

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-2 (Canceled).

Claim 3 ~~The display device according to claim 2~~ A display device comprising:
a plurality of self-luminous elements arrayed to form a display screen; and
a driving circuit which causes drive currents to flow in said self-luminous elements
according to pixel signals, said driving circuit being configured to restrict the drive currents
flowing in said self-luminous elements upon increase in the total sum of the drive currents.
wherein said driving circuit comprises,
a D/A conversion circuit which digital-to-analog converts the pixel signals;
a gradation reference circuit which generates a predetermined number of
gradation reference signals which are referred to by said D/A conversion circuit; and
a correction circuit which detects the total sum of the drive currents flowing in
said self-luminous elements and controls said gradation reference circuit to produce a
predetermined number of gradation reference signals whose levels are uniformly
corrected according to the total sum,
wherein said gradation reference circuit includes a voltage division circuit
which comprises a plurality of resistor elements connected to output a predetermined
number of gradation reference voltages whose voltage ratios to a reference power
supply voltage differ from each other, as the predetermined number of gradation
reference signals, respectively.

Claim 4 (Currently Amended): ~~The display device according to claim 2~~ A display
device comprising:

a plurality of self-luminous elements arrayed to form a display screen; and
a driving circuit which causes drive currents to flow in said self-luminous elements
according to pixel signals, said driving circuit being configured to restrict the drive currents
flowing in said self-luminous elements upon increase in the total sum of the drive currents.

wherein said driving circuit comprises,

a D/A conversion circuit which digital-to-analog converts the pixel signals;
a gradation reference circuit which generates a predetermined number of
gradation reference signals which are referred to by said D/A conversion circuit; and
a correction circuit which detects the total sum of the drive currents flowing in
said self-luminous elements and controls said gradation reference circuit to produce a
predetermined number of gradation reference signals whose levels are uniformly
corrected according to the total sum,

wherein said gradation reference circuit includes a current mirror circuit which
comprises a plurality of active current mirror elements connected to output
a predetermined number of gradation reference currents whose current ratios to a
reference power supply current differ from each other, as the predetermined number
of gradation reference signals, respectively.

Claim 5 (Currently Amended): The display device according to claim [[1]] 3,
wherein said self-luminous elements are formed of organic electro-luminescence elements.

Claim 6 (New): The display device according to claim 4, wherein said self-luminous
elements are formed of organic electro-luminescence elements.